## **BEST AVAILABLE COPY**

|                 |  |  |  |  |          | SERIAL NO. FILING DATE |            |                 |            |          |                     |          |             |          |  |
|-----------------|--|--|--|--|----------|------------------------|------------|-----------------|------------|----------|---------------------|----------|-------------|----------|--|
| CLAIMS ONLY     |  |  |  |  |          |                        |            |                 | o.<br>) 85 | 82       | FILING DATE         |          |             |          |  |
|                 |  |  |  |  |          |                        | APPLICA    | VT(S)           |            | ,        |                     |          |             |          |  |
|                 | CLAIM!   |  |  |  |          |                        |            |                 | S          |          |                     |          |             |          |  |
|                 | <b></b>  | FILED  |  | NDMENT   | 2nd AME  |                        | ] ]        |                 |            |          |                     |          | u .         |          |  |
| <u> </u>        | IND.   | DEP.   | IND.   | DEP.   | IND.     | DEP.                   | <b>↓</b>   |                 | IND.       | DEP.     | IND.                | DEP.     | IND.        | DEP.     |  |
| 1 2             |  | <del> </del>                                     |  |  | ļ        |                        | 4 }        | 51<br>52        |            |          |                     | <u> </u> |             | ļ        |  |
| 3               |  |  |  |  |          |                        | 1 1        | 53              |            |          | <b></b> -           |          |             |          |  |
| 4 .             |  | (  | <b></b>  |  |          |                        | 1 1        | 54              |            |          |                     |          | -           |          |  |
| 5               |  | (  |  |  |          |                        | ] [        | 55              |            |          |                     |          |             |          |  |
| 6               |  | 1_1_   | <b> </b>   |  |          |                        | ļ ļ        | 56              |            |          | ļ                   |          |             |          |  |
| 8               |  | 1  |  |  |          |                        | {          | 57<br>58        |            |          | <u> </u>            |          |             | <u> </u> |  |
| 9               | -  | 1  | <del> </del>                                     |  |          |                        | 1 }        | 59              |            |          |                     |          | <del></del> |          |  |
| 10              |  | Ì  |  |  |          |                        | 1 [        | 60              |            |          |                     |          |             |          |  |
| 11              |  | 1  |  |  |          |                        | ] [        | 61              |            |          |                     |          |             |          |  |
| 12              |  | ļ .  |  |  |          |                        |            | 62              |            |          |                     |          |             |          |  |
| 13              |  | -  | <del> </del>                                     | ļ  |          |                        | 1 1        | 63<br>64        |            |          | <u> </u>            |          |             |          |  |
| 15              |  |  | <u> </u>   |  |          |                        | 1 1        | 65              |            |          | <u> </u>            | -        |             |          |  |
| 16              |  | i  |  |  |          |                        | 1 1        | 66              |            |          |                     |          |             |          |  |
| 17              |  | - 1  |  |  |          |                        | ] [        | 67              |            |          |                     |          |             |          |  |
| 18              |  |  |  |  |          |                        | ļ ļ        | 68              |            |          |                     |          |             |          |  |
| 20              |  |  |  |  |          |                        | { }        | 69<br>70        |            |          |                     |          |             |          |  |
| 21              | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |  |          |                        | 1 }        | 71              |            |          |                     |          |             |          |  |
| 22              |  |  | <u> </u>   | -  |          |                        | 1 1        | 72              |            |          |                     |          |             |          |  |
| 23              |  |  |  |  |          |                        | ] [        | 73              |            |          |                     |          |             |          |  |
| 24              | ļ  |  | ļ  |  |          |                        | 1 1        | 74              |            |          |                     |          |             |          |  |
| 25              |  | -  | <u> </u>   |  |          |                        | } }        | 75              |            |          |                     |          |             |          |  |
| 26<br>27        |  |  |  |  |          |                        | <b>!</b>   | 76<br>77        | · ···      |          |                     |          |             |          |  |
| 28              |  |  |  |  |          |                        | 1 1        | 78              |            |          |                     |          |             |          |  |
| 29              |  |  |  |  |          |                        | ] [        | 79              |            |          |                     |          |             |          |  |
| 30              |  |  |  |  |          |                        |            | 80              |            |          |                     |          |             |          |  |
| 31              | ļ  |  |  |  |          |                        |            | 81              |            |          |                     |          |             |          |  |
| 33              |  | <b></b>  | <u></u>  |  |          |                        | <b> </b>   | 82<br>83        |            |          |                     |          |             |          |  |
| 34              |  |  |  |  |          |                        | <b> </b>   | 84              |            |          |                     |          |             | -        |  |
| 35              |  |  |  |  |          |                        | 1 [        | 85              |            |          |                     | _        |             |          |  |
| 36              |  |  |  |  |          |                        |            | 86              |            |          |                     |          |             |          |  |
| 37              |  |  | ļ  |  |          |                        |            | 87              |            |          |                     |          |             |          |  |
| 38              |  |  |  |  |          | _                      | <b> </b>   | 88              |            |          |                     |          |             |          |  |
| 40              |  | <del>                                     </del> | <del> </del>                                     |  |          | _                      |            | 90              |            |          |                     |          | -           |          |  |
| 41              |  |  |  |  |          |                        |            | 91              |            |          |                     |          |             |          |  |
| 42              |  |  |  |  |          |                        |            | 92              |            |          |                     |          |             |          |  |
| 43              | ļ  |  | ļ  |  |          |                        |            | 93              |            |          |                     |          |             |          |  |
| 44              |  |  | <del> </del>                                     |  |          |                        |            | 94<br>95        |            |          |                     |          |             |          |  |
| 45              |  | <del>  `</del>                                   | <del> </del>                                     |  |          |                        | <b> </b>   | 96              |            |          |                     |          |             | _        |  |
| 47              | <u> </u>   |  | <del>                                     </del> | <del>                                     </del> |          |                        | <b> </b>   | 97              |            |          |                     |          |             |          |  |
| 48              |  |  |  |  |          |                        | ]          | 98              |            |          |                     |          |             |          |  |
| 49              |  |  |  |  |          |                        | ] [        | 99              |            |          |                     |          |             |          |  |
| 50              |  | <u> </u>   |  |  |          |                        |            | 100             |            |          |                     |          |             |          |  |
| TOTAL<br>IND.   | 3  |  | <u></u>  |  |          |                        |            | TOTAL<br>IND.   |            | Û        |                     | 0        |             | <b>1</b> |  |
| TOTAL<br>DEP.   | 14   | <u> </u>   |  | <u> </u>   |          | <del>,</del>           | ] [        | TOTAL<br>DÉP.   |            | 9        |                     | ÇI .     |             | 0        |  |
| TOTAL<br>CLAIMS | 117  |  |  |  |          |                        | i [        | TOTAL<br>CLAIMS |            |          |                     |          |             |          |  |
|                 |  |  |  | *****  |          | OD 400                 | TIONAL C   | AU-0 0-         | AD1451     | DI/E1/20 |                     |          |             |          |  |
|                 |  |  |  | MAY E  | e useu f | OH AUUI                | ITIONAL CI | AIMS UH         | AUMENL     | MENIS    |                     |          |             |          |  |
| 1               |  |  |  |  |          |                        |            |                 |            |          |                     |          |             |          |  |
| FORM PT         | TO-2022 (1-                                      | 98)  |  |  |          |                        |            |                 |            |          | U.S.DEP<br>Patent a | ARTMENT  | OF COM      | MERCE    |  |
| . 51,507,7      |  |  |  |  |          |                        |            |                 |            |          |                     |          |             |          |  |